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APPLICATION 1	۷0.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/607,525		06/25/2003	Valery M. Dubin	42P16623	4832	
8791	75	90 03/30/2005		EXAMINER		
		OKOLOFF TAYLOI RE BOULEVARD	KIELIN, ERIK J			
SEVENT				ART UNIT	PAPER NUMBER	
LOS AN	GELES	S, CA 90025-1030		2813		
				DATE MAIL ED: 03/30/2005		

DATE MAILED: 03/30/200

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/607,525	DUBIN, VALERY	М. (Con			
Office Action Summary	Examiner	Art Unit					
	Erik Kielin	2813					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the co	orrespondence ad	dress				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ol6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONED	nely filed s will be considered timely the mailing date of this co O (35 U.S.C. § 133).	y. ommunication.				
Status							
1) Responsive to communication(s) filed on 13 Ja	nuary 2005.						
2a) ☐ This action is FINAL . 2b) ☐ This	☐ This action is FINAL . 2b)☐ This action is non-final.						
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.					
Disposition of Claims	·						
4) Claim(s) 1-76 is/are pending in the application.							
4a) Of the above claim(s) <u>25-35 and 64-76</u> is/ar	re withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6) Claim(s) is/are rejected.							
7) Claim(s) / is/are objected to. 8) Claim(s) 1-24 and 36-39 are subject to restricti	on and/or election requirement						
o) Claim(s) 1-24 and 30-39 are subject to restrict	on ana/or crossion requirement.						
Application Papers							
9) The specification is objected to by the Examine		_					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Applicant may not request that any objection to the o			ER 1 121/4	Λ.			
11) The oath or declaration is objected to by the Ex				·)·			
Priority under 35 U.S.C. § 119							
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
1. Certified copies of the priority documents							
2. Certified copies of the priority documents			Stoce				
 Copies of the certified copies of the prior application from the International Bureau 		iu iii tiiis Nationai	Stage				
* See the attached detailed Office action for a list		ed.					
COUNTY AND							
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da 5) Notice of Informal P		O-152)				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	a.s.ii., apiioalion (i 1)	- · ••/				
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DETAILED ACTION

This action responds to the Election filed 13 January 2005.

Election/Restrictions

1. While Applicant's election of the invention of Group II, claims 1-24 and 36-63, without traverse is noted, this application contains plural inventions and species claims directed to the following patentably distinct species of the claimed invention:

- 2. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - II-A. Claims 1-24 and 36-39, drawn to a method of forming carbon nanotubes in a porous material, classified in class 427, subclass 577 or 590.
 - II-B. Claims 39-63, drawn to a method of forming a metal coating, embedding carbon nanotubes during a liquid-phase plating process, classified in class 205, subclass 109 or 114.

The inventions are distinct, each from the other because of the following reasons:

- Inventions II-A and II-B are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have, *inter alia*, different modes of operation: II-A grows carbon nanotubes in a porous material (e.g. metal oxide) after formation of the porous matrix while II-B embeds carbon nanotubes during the plating of a metal.
- 4. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

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5. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

- 6. Both inventions of the Groups II-A and II-B additionally contain claims directed to the following patentably distinct species of the claimed invention:
 - 1. Method of forming a composite carbon nanotube material attached to a substrate.
 - 2. Method of forming a free-standing composite carbon nanotube material.
 - 3. Method of attaching a composite carbon nanotube material to a different substrate from that on which it is formed.

In addition to the election of either II-A or II-B, Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claim is generic.

In this regard, note that subcombinations are **not** generic to the combination using the subcombination. (See MPEP **806.04(c)**.) Accordingly, the addition of steps or features (as indicated by language such as "further comprising" in a dependent claim) creates a subcombination-combination relationship, preventing the independent claim from being generic. Note further that for a claim to be generic it should recite all features (further defined by the dependent claims) in generic form. (See MPEP **806.04(d)**.)

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable

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thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Erik Kielin whose telephone number is 571-272-1693. The examiner can normally be reached from 9:00 - 19:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead, Jr. can be reached on 571-272-1702. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Erik Kielin

Primary Examiner

March 26, 2005